

What is claimed is:

1. An evaporation device for volatile substances such as insecticides, aromatics, and the like comprising:

a housing;

a heating unit disposed in said housing having a heating block;

an electric resistance element carried by said heating block to heat the heating block;

a container for a substance to be evaporated to be carried by said housing;

a wick inserted into said container having a wick end protruding from the container for the evaporation of the substance in said container;

said electric resistance element including a rod-shaped resistance body coated in at least some areas with a resistance layer said resistance layer being processed by one of cutting and grinding in some areas to provide a desired resistance value according to the evaporation temperature required for evaporation of the substance in said container so that a heating unit with small dimensions and miniaturized evaporation device are provided.

2. The device of claim 1 wherein said resistance layer is cut around said rod-shaped resistance body in a form of a spiral.

3. The device of claim 2 wherein said layer is a metal oxide layer and said resistance body is made of a ceramic material.

4. The device of claim 3 wherein said metal oxide is a nickel/chrome alloy and said ceramic material has a high content of  $\text{Al}_2\text{O}_3$ .

5. The device of claim 1 including a metal cap carried on each end of said rod-shaped resistance body for attachment to a plurality of electric lines coupled to a connection plug.

6. The device of claim 5 wherein said rod-shaped resistance element is inserted into an opening formed in said heating block, and is encapsulated in said opening material by having a high heat conductivity, and slits are formed in said heating block through which said electric lines are routed out of the heating block to said connection plug.

7. The device of claim 6 wherein a length of said resistance element as seen in a longitudinal direction of said opening is approximately equal to a width of said heating block so that the electric lines may be bent approximately at a right angle relative to said resistance element near said caps to extend approximately parallel to each other as well as approximately in line with plug pins of the connection plug.

8. The device of claim 7 wherein said connection plug comprises a base plate from which the plug pins extend on one side and to which the electric lines are connected on the other side.

9. The device of claim 8 wherein said base plate of said connection plug and said heating unit is clamped between the upper shell and the lower shell.

10. The devices of claim 1 including a wick passage formed in said heating block near said electric resistance element through which said wick end extends.

11. The device of claim 1 wherein said housing includes an upper shell and a lower shell which can be connected to each other by a retaining element and one of

said upper and lower shells including aeration openings above said wick end to allow the evaporated substance to escape.

12. The device of claim 11 including a decorative element attached on a surrounding edge border of said upper shell.

5 13. A miniaturized evaporation device for volatile substances such as insecticides, aromatics, and the like comprising:

a housing including an upper shell and a lower shell;

a heating unit disposed between said upper and lower shells having a heating element;

a container for containing said volatile substance carried by said housing;

a wick inserted into said container having a wick end extending upward from the container for the evaporation of the substance in said container; and

said wick end extending in proximity to said heating element for enhancing the evaporation of the volatile substance in said container.

14. The device of claim 13 wherein said heating unit includes a heating block having a wick passage disposed between said upper and lower shells; and said wick end extending through said wick passage.

15. The device of claim 14 wherein said heating element is carried by said heating block near said wick passage for heating said wick end.

20 16. The device of claim 15 wherein said heating element includes a cylindrical body having a resistance layer which is processed by one of cutting and grinding in some areas to provide a desired resistance value according to the evaporation

temperature required for evaporation of the substance in said container so that a heating unit with small dimensions and miniaturized evaporation device are provided.

17. The device of claim 16 wherein said layer is a metal oxide layer and said resistance body is made of a ceramic material.

18. The device of claim 16 wherein a helix is formed into said resistance layer by said process.

19. A miniaturized evaporation device for volatile substances such as insecticides, aromatics, and the like of the type which includes a housing; a heating unit disposed in said housing having a heating block and an electric resistance element carried by said heating block to heat the heating block; a container for a substance to be evaporated carried by said housing; and a wick inserted into said container having a wick end extending from the container for the evaporation of the substance in said container; wherein the improvement comprises:

a heating unit including an electric resistance element which includes a rod-shaped resistance body coated in at least some areas with a resistance layer;

said resistance layer being processed by one of cutting and grinding in some areas to provide a desired resistance value according to the evaporation temperature required for evaporation of the volatile substance in said container so that a heating unit with small dimensions and miniaturized evaporation device are provided;

a housing having an upper shell;

said container for containing said volatile substance carried by said housing; and said heating unit being carried between said upper shell and said container.

20. The device of claim 19 wherein said housing includes said upper shell and a lower shell which can be connected to each other by a retaining element and one of said upper and lower shells including aeration openings above said wick end to allow the evaporated substance to escape.